## Uncle Sam, Guardian Over His People's Health

Studying the Measles and Infantile Paralysis by Means of Monkeys - Guinea Pigs and Diphtheria - The Horrors of Pellagra - Controlling Typhoid - Women Who Carry Disease-Mrs. X. and Typhoid

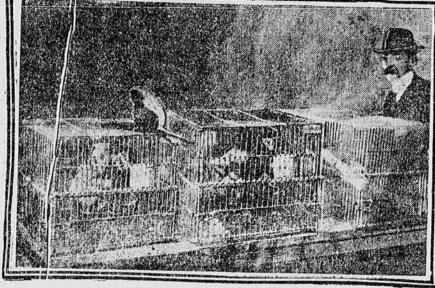
BY FRANK G. CARPENTER.

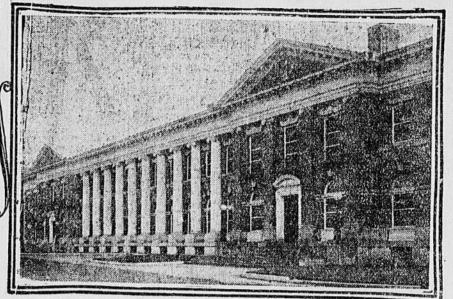
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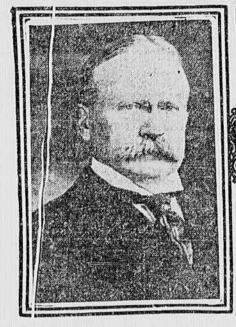
Zuinea pigs with the diphtherits and rabbits with typid fever-these are some of the
nigs to be seen in the great eximent station which Uncle Sam
s established on the banks of the
contact to keep disease away from

owher whether there is in any part e world an institution of medical reh more important than that the the government has here at impten. I have visited the Well-laboratories at Khartum, in the h. They are devoted to tropical sess—to the black water fever, the ling sickness and other horrors of pper Nile and Middle Africa. There laboratory of medical research in on, and there are others in Paris, n and Vienna. The most of these rivate institutions, carried on with the capital. Our government institutions are the series of the ser





THE HYGIENIC



IN THE HYGIENIC LABORATORY. AMONG THE ANIMALS USED ARE RABBITS.

chemical and other imporatories, specially fitted up rooms in which germs and microbes of all kinds are reared, rooms for the testing of diseases through a study of animals which have infected with them, and all the machinery for modern medical investigate through the man is amimal as given drug after drug in bined. In this letter I can mention only a few of the problems which are now being studied and some of the through them the diseases through them the diseases on hand in order that it may be discovered. Summals are carefully watched, their animals are carefully watched, their anim

as careful the origin and course of the asserts man the origin and course of the disease and how it may be centrolled as it affects man.

Among the animals used for this purposa for guinespigs, rabbits, mice and monkeys. We are said to be disease, and from the human patient at just the time that the rash was another experiments we now know and careful for the monkeys, and the make-up. It is only lately that it has been used in such investigations, but it is proving to be of enormous value, At present the government has on hand about threescore of such monkeys, used come from India. They are of a species known-ass-like Rhesus, which is said to be, of all monkeys, the best for this purpose. These Rhesus monkeys are little fellows not much bigger than a good sized fox terrier, and are quite as cunning, as mischievous and as interesting as any monkey on will see in the Zoo. They are kept in cages in a monkey house and are taken out from time to time as they are needed in the investigations.

In the Guinea Pig Pens.

In another part of this same house its which the laboratory constitute of call monkey house and are taken out from time to time as they are needed in the investigations.

In the Guinea Pig Pens.

In another part of this same house its which the laboratory constituted to each pen. They breed rapisor of many little pens occupied by guineapiss A male and four females are allotted to each pen. They breed rapisor of many little pens occupied by guineapiss A male and four females are allotted to each pen. They breed rapisor of many little pens or more of these little the monkey included the State or city where the comes in decisions. It must be the same ovar, the form that yield and their blood took the measles likewise.

Dangers to School Children

From these and the laboratory constituted the disease, and the little size of monkey included the State or city where the disease or city where the state that the state of the state of the animal provided the State or city where the disease or laboration. The firs

eased monkeys will arrest the progress of the disease after it has developed. monkeys have been vaccinated with this and thus made immune. It may be that this vaccination will some day be extended to children.

Infantile paralysis is found to come from a germ, but this germ is so small that it will go through a stone filter. The scientists have macerated the spinal cord of a monkey having the

paralysis.
It is als o found that the secretions from the noses of the infected monkeys are infectious, and it is believed all the secretions of the nose and mouth art likewise so. This indicates that the disease may be transmitted from one person to another by direct contact and that it is contagious.

contact and that it is contagious.

Pellagra Comes From Italy.

Another terriore disease which is causing much excitement in cortain sections of the United States just now is pellagra. This, in the words of Surgeon-General Wyman, is "a veritable scourge in certain parts of Europe." It is found in Florence, Italy, and Roumania, and it occurs also in Spain and Upper Egypt. In certain parts of Italy as many as 50 per cent, of the people have the disease, and 14 per cent, of these are mentally affected.

tial paralysis. It affects the ski stomach and the whole physica ganization. In Alabama in 1907, was an epidemic of it at the 1 Vernon Hospital for Colored Insa

the color of now, which scamper and play about the little houses in which the secretions which come has the some place in the research work, and many of these which have been kept here have been of service been kept here. All of these animals are carefully treated by steam and the best burses hered by steam and the best burses hered. All of these animals were given bearing the play of the service bearing many hered here have been kept here been kept here. Among the special human fills which the large are kept for a superior of the pulse which paralyzed, eight in order that the disease given to them many be directly diagnosed and studies of the pulse. Which paralyzed is the service of the pulse which paralyzed is the service of the pulse which have been given the service of the pulse which have been given the service of the pulse which have been given the service of the pulse which have been given the service of the pulse which have been given the service of the pulse which have been given the service of the pulse which have been given the service of the pulse which have been given the service of the pulse which have been given the service of the pulse which have been dead on the pulse of the pulse which have been dead of the pulse which have been given the service of the pulse which have been dead on the pulse of the pulse which have been dead on the pulse of the pulse which have been dead on the pulse of the pulse which have been dead on the pulse of the pulse of the pulse of the

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